



Installation Instructions





Models: MO18SPN, MO18SPL, MO24SPN, MO24SPL, MO18RRN, MO18RRL, MO24RRN, MO24RRL


CFM Burner/Hearth and Log Kits


Intended for use in all CFM Corporation factory built fireplaces



Check with your local building code agency before you begin installation to ensure compliance with local codes, including the need for permits and follow-up inspections. If you encounter any problems regarding code approvals, or if you need clarification of any of the instructions contained here, contact the Technical Services Dept.,

Installation and service of this appliance should be performed by qualified personnel. CFM suggests NFI certified or factory-trained professionals, or technicians supervised by an NFI certified professional.



CAUTION	
	<p>DO NOT DISCARD THIS MANUAL</p> <ul style="list-style-type: none">• Important operating and maintenance instructions included.• Read, understand and follow these instructions for safe installation and operation.• Leave this manual with party responsible for use and operation.



 WARNING	
	<p>If the information in these instructions is not followed exactly, a fire may result causing property damage, personal injury, or death.</p> <ul style="list-style-type: none">• Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.• What to do if you smell gas:<ul style="list-style-type: none">- Do not try to light any appliance.- Do not touch any electrical switch. Do not use any phone in your building.- Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.- If you cannot reach your gas supplier, call the fire department.• Installation and service must be performed by a qualified installer, service agency, or the gas supplier.

 WARNING	
	<p>HOT! DO NOT TOUCH. SEVERE BURNS MAY RESULT. CLOTHING IGNITION MAY RESULT.</p> <p>Glass and other surfaces are hot during operation and cool down.</p> <ul style="list-style-type: none">• Keep children away.• CAREFULLY SUPERVISE children in same room as appliance.• Alert children and adults to hazards of high temperatures.• Keep clothing, furniture, draperies and other combustibles away.

In the Commonwealth of Massachusetts:	
<ul style="list-style-type: none">• This appliance must be installed by a licensed plumber or gas fitter.• The chimney flue damper, when used with gas logs, will be welded open or completely removed.• A CO detector shall be installed in the room where the appliance is installed.	

**Read this manual before installing or operating this appliance.
Please retain this owner's manual for future reference.**

Congratulations

Congratulations on selecting a CFM gas log set—an elegant and clean alternative to burning wood. The CFM gas log set you have selected is designed to provide the utmost in safety, reliability, and efficiency.

As the owner of this new gas log set, you'll want to read and carefully follow all of the instructions contained in this owner's manual. Pay special attention to all cautions and warnings.

This owner's manual should be retained for future reference. We suggest you keep it with your other important documents and product manuals.

The information contained in this owner's manual, unless noted otherwise, applies to all models and gas control systems.

Your new gas log set will give you years of durable use and trouble-free enjoyment. Welcome to the CFM family of appliance products!

Homeowner Reference Information

We recommend that you record the following pertinent information about your gas log set:

Model Name: _____ Date purchased/installed: _____

Serial Number: _____ Location on appliance: _____

Dealership purchased from: _____ Dealer phone: _____

Notes: _____

Listing Label Information/Location

The model information regarding your specific gas log set can be found on the rating plate.

MODEL NO:

SERIAL NO:

INPUT RATING:

GAS TYPE: LP

MAX. INLET PRESSURE:

MANIFOLD PRESSURE:



**MAJESTIC
FIREPLACES
CFM CORPORATION
DECATUR, GA**

Design complies with ANSI Z21.60 b-2004 CSA 2.28 b-2004. Decorative Appliances for Installation in Solid-Fuel burning Fireplaces. The minimum inlet gas supply pressure for the purpose of input adjustment _____ inches W.C. The minimum size fireplace opening is _____ W x _____ H x _____ D

WARNING: For installation in a solid-fuel burning fireplace only. The fireplace chimney must have a permanent vent opening to the atmosphere of not less than _____ square inches or as determined from the manufacturer's installation instructions.

WARNING: Improper installation, adjustment, alteration, service or maintenance can cause property damage, personal injury or loss of life. Refer to the owner's information manual provided with this appliance. Installation and service must be performed by a qualified installer, service agency or the gas supplier.

Table of Contents

1	Listing and Code Approvals	
	A. Appliance Certification	4
	B. Table 1	4
2	Getting Started	
	A. Size of Firebox	5
	B. Negative Pressure	5
	C. Tools and Supplies Needed	5
	D. Inspect the Appliance and Components	5
	E. Components of the Gas Hearth Kit	6
3	Appliance Preparation	
	A. Gas Supply Connection	6
	B. Convert to Left Side Gas Piping.	6
	C. Gas Pressure.	7
4	Installation Instructions	
	A. Install the Damper Stop	9
	B. Install the Burner/Pan Assembly	10
	C. Switch or Remote Installation	10
	D. Install the Grate	10
	E. Place Sand/Vermiculite, Rockwool	10
	F. Install the Logs.	11
	G. Adjust the Pilot Flame	11
	H. Inspect the Venting System	12
5	Operating Instructions	
	A. Lighting Instructions.	13
	B. Glass Doors.	15
	C. Important Safeguards	15
6	Maintaining and Servicing the Appliance	
	A. Servicing Your Appliance	16
	B. Cleaning Your Appliance	16
	C. Annual Inspection	16
	D. Troubleshooting	17
7	Reference Materials	
	A. Replacement Parts	18
	B. Optional Components	22
	C. Warranty	23

1 Listing and Code Approvals

A. Appliance Certification

The Burner/Hearth and Log Kits have been tested and listed in the U.S. in accordance with **ANSI Z21.60b-2004 and ANSI Z21.84-2003** (Gas Log Set). In Canada the Gas Log Hearth Kits have been tested and approved in accordance with **CGA 2.26b-2004**. They have been listed by OMNI Test Labs for installation and operation in the United States and Canada as described in these Installation and Operating Instructions. All components are UL, OMNI, or CSA safety certified.

Check with your local building code agency prior to installing this appliance to ensure compliance with local codes, including the need for permits and follow-up inspections. In the absence of local codes, comply with the **National Fuel Gas Code, ANSI Z223.1-Latest Edition** in the U.S.; in Canada, the **CAN/CGA B149 Installation Codes**. If any assistance is required during installation, please contact your local dealer or call the Technical Services Department .

B. Table 1

Product		MO18SPN	MO18SPL	MO24SPN	MO24SPL	MO18RRN	MO18RRL	MO24RRN	MO24RRL
Inlet BTU	Nat.	67,000		68,000		67,000		68,000	
	LP		47,000		58,000		47,000		58,000
Manifold Pressure IN. WC/Kpa	Nat.	3.5/.018		3.5/.020		3.5/.022		3.5/.024	
	LP		11.0/0.058		11.0/0.060		11.0/0.062		11.0/0.064
Max. Inlet Pressure IN. WC/Kpa	Nat.	10/.052		10/.054		10/.056		10/.058	
	LP		13/.069		13/.071		13/.073		13/.075
Min. Inlet Pressure IN. WC/Kpa.	Nat.	3.5/.018		3.5/.020		3.5/.022		3.5/.024	
	LP		11.0/0.058		11.0/0.060		11.0/0.062		11.0/0.064
Orifice Size	Nat.	#26		#26		#26		#26	
	LP		#47		#42		#47		#42
Min. Fireplace Opening Size (In.)	Front	33	33	38	38	33	33	38	38
	Rear	20	20	26	26	20	20	26	26
	Depth	15	15	15	15	15	15	15	15
	Height	21	21	21	21	21	21	21	21
Min. Vent Opening in Square In./cm		39/251.6	39/251.6	48/309.7	48/309.7	39/251.6	39/251.6	48/309.7	48/309.7



WARNING

Improper installation, adjustment, alteration, service or maintenance can cause injury or property damage. Refer to the owner's information manual provided with this appliance. For assistance or additional information consult a qualified installer, service agency or the gas supplier.



WARNING

Fire Risk

Exhaust Fumes Risk

- Do NOT use this appliance as a "vent-free heater."

The flue must be permanently open. Refer to Table 1.



These Hearth/Log Kits are for use with all CFM Factory built fireplaces.

2 Getting Started

A. Size of Firebox

See Table 1 in Section 1.B.

B. Negative Pressure

Negative pressure results from the imbalance of air available for the fireplace to operate properly. Causes for this imbalance include:

- Exhaust fans (kitchen, bath, etc.).
- Range hoods.
- Combustion air requirements for furnaces, water heaters and other combustion appliances.
- Clothes dryers.
- Location of return-air vents to furnace or air conditioning.
- Imbalances of the HVAC air handling system.
- Upper level air leaks: recessed lighting, attic hatch opening, duct leaks.

C. Tools and Supplies Needed

Tools and supplies normally required for installation:

Pliers
Phillips screwdriver
Tape measure
Crescent wrenches
Gas shutoff valve
Non-corrosive leak check solution
3/4 in. wrench, 7/16 in. wrench

D. Inspect the Appliance and Components

- Remove the contents from the carton. Attached to the burner are tags identifying the manufacturer name, serial number, model number (including gas log size), BTU ratings, gas type, etc.
- Review the attached tags before proceeding. Ensure that all minimum fireplace dimension requirements are achieved using Table 1 in Section 1.B. See Figure 2.1. Ensure the gas type provided in the fireplace coincide with the gas type marked on the tag.

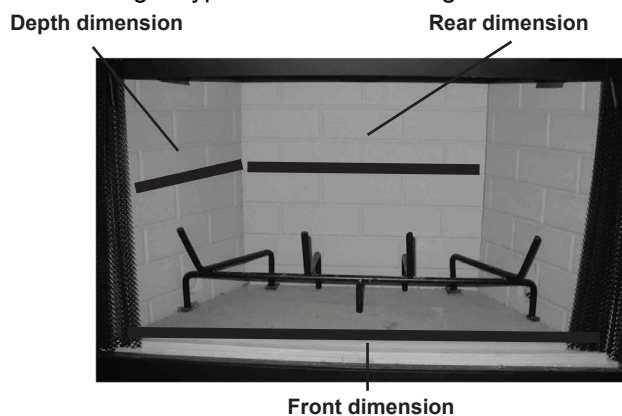


Figure 2.1 Measure Firebox

CAUTION



Sharp Edges

- Wear protective gloves and safety glasses during installation.



WARNING



Asphyxiation Risk

This appliance produces carbon monoxide (CO).

- The free opening areas (in square inches) of the chimney damper as shown in the tables must be met.
- User must make sure damper is locked open.
- The installer is responsible to ensure proper ventilation of flue gases before appliance is used.

Fire needs to draft properly for safe operation.



WARNING



CFM disclaims any responsibility for, and the warranty will be voided by, the following actions:

- Installation and use of any damaged appliance or vent system component.
- Modification of the appliance or vent system.
- Installation other than as instructed by CFM• Improper positioning of the gas logs or the glass door.
- Installation and/or use of any component part not approved by CFM

Any such action may cause a fire hazard.

	⚠ WARNING
	<p>Inspect appliance and components for damage. Damaged parts may impair safe operation.</p> <ul style="list-style-type: none"> • Do NOT install damaged components. • Do NOT install incomplete components. • Do NOT install substitute components. <p>Report damaged parts to dealer.</p>

	⚠ WARNING	
<p>Keep appliance dry.</p> <ul style="list-style-type: none"> • Mold or rust may cause odors. • Water may damage controls. 		

⚠ WARNING
<p>Do NOT use this appliance if any part has been under water. Immediately call a qualified service technician to inspect the appliance and to replace any part of the control system and any gas control which has been under water.</p>

	⚠ WARNING
	<p>Shock Risk Fire Risk Use ONLY optional accessories approved for this appliance.</p> <ul style="list-style-type: none"> • Using non-listed accessories voids warranty. • Using non-listed accessories may result in a safety hazard. • Only CFM approved accessories may be used safely.

E. Components of the Gas Hearth Kit

The Burner/Hearth Kit consists of the following:

- Burner/Pan Assembly
- Grate Assembly
- Glowing Embers
- Sand (NG only)
- Vermiculite (LP only)
- Lava Rock
- Damper Stop
- Extended Handle
- Log Set
- Remote ready Kit, switch included or remote control sold separately

3 Appliance Preparation

Note: Have the gas supply line installed in accordance with local building codes, if any. If not, follow **ANSI 223.1**. Installation should be done by a qualified installer approved and/or licensed as required by the locality. (In the Commonwealth of Massachusetts installation must be performed by a licensed plumber or gas fitter.)

A. Gas Supply Connection

Ensure fittings are of the appropriate size and type on the gas line connection. If the tubing has to be cut to length be sure to use the proper cutting and flaring tool. Also, be careful not to crimp the tubing while bending. If the tubing becomes crimped, do not use for installation.

WARNING



Gas Leak Risk

- Support control when attaching pipe to prevent bending gas line.

Certified joint compound or Teflon tape must be used on all threaded male connections to ensure a tight seal.

WARNING



Fire Risk

Explosion Risk

Personal Injury Risk

An explosion could occur if a connection is made directly to an unregulated propane (LP) tank.



Note: An individual manual shutoff valve (not supplied) is required when installing this appliance. Check local codes for location of shut off valve.

Note: A listed (and Commonwealth of Massachusetts approved) 1/2 in. (13 mm) T-handle manual shut-off valve and flexible gas connector are connected to the 1/2 in. (13 mm) control valve inlet.

- **If substituting for these components, please consult local codes for compliance.**

WARNING



Fire Risk

Explosion Risk

Verify inlet pressures.

- High pressure may cause overfire condition.
- Low pressure may cause explosion.

Install regulator upstream of valve if line pressure is greater than 1/2 psig.



B. Convert to Right Side Gas Piping

- Remove black cap from right side.
- Remove two pilot head screws.
- Remove two pilot bracket screws.
- Detach thermocouple and pilot from control valve.
- Remove the control valve from the left side of the burner pan and replace on right, upside down.

Note: Prior to installing the valve, use Teflon tape or joint compound on the male threads.

- Reinstall pilot bracket on right side of burner.
- Reinstall pilot assembly to pilot bracket.
- Reattach pilot tube and thermocouple to control valve.
- Reinstall black cap removed from right side of burner to left side.
- Install valve shield.

WARNING



Fire Risk




Explosion Risk





- Gas build-up during line purge may ignite.
- Purge should be performed by qualified technician.
- Ensure adequate ventilation.
- Ensure there are no ignition sources such as sparks or open flames.









C. Gas Pressure

Proper input pressures are required for optimum appliance performance. Gas line sizing requirements need to be made following **NFPA54** and **CSA B-149**.

	WARNING
	Fire Risk
	Explosion Risk
	High pressure will damage valve.
	<ul style="list-style-type: none">• Disconnect gas supply piping BEFORE pressure testing gas line at test pressures above 1/2 psig.• Close the manual shutoff valve BEFORE pressure testing gas line at test pressures equal to or less than 1/2 psig.

	WARNING
	CHECK FOR GAS LEAKS
	Fire Risk
	Explosion Risk
	Asphyxiation Risk
	<ul style="list-style-type: none">• Check all fittings and connections.• Do not use open flame.• After the gas line installation is complete, all connections must be tightened and checked for leaks with a commercially available, non-corrosive leak check solution. Be sure to rinse off all leak check solution following testing.
	Fittings and connections may have loosened during shipping and handling.

	WARNING
	Fire Risk
	Explosion Risk
	Do NOT change the valve settings.
	<ul style="list-style-type: none">• This valve has been preset at the factory.• Changing valve settings may result in fire hazard or bodily injury.

	WARNING	
	Shock Risk	
	Explosion Risk	
	Do NOT wire 110V to valve.	

- **Gas Supply Pressure:** Minimum inlet gas supply pressure must be 3.5 in. W.C. for natural gas or 11 in. W.C. for LP gas for the purpose of input adjustment. Maximum inlet gas pressure must not exceed 7.0 in. W.C. for natural gas or 13 in. W.C. for LP gas. The gas line supplying the appliance must be sufficient size to furnish the appropriate supply pressure to the appliance while operating in the "High" setting. (Minimum line ID of 1/2 in. required if the line is longer than 20 ft.
- **Gas Line Pressure Test:** Perform pressure test according to state and local code (if pressure exceeds 1/2 in. psi [3.5 kPa]) before appliance is connected. Be sure to release air pressure from the gas line before connection is made to the appliance. Excessive pressure will damage the gas control and may cause a gas leak.
- **Gas Leak Test:** Make sure the gas connections are tight. Turn on the gas and coat each joint with a non-corrosive gas leak check solution. Always check for gas leaks with a mild soap and water solution applied with a brush no larger than 1" (25mm). Never apply soap and water solution with a spray bottle. Air bubbles will form indicating any leaks. **DO NOT USE A FLAME OR ANY TYPE OF IGNITION SOURCE TO CHECK FOR LEAKS.** All leaks must be corrected before proceeding with installation.
- The appliance must only be installed in a solid-fuel burning fireplace *with the flue damper clamped open*.
- The minimum permanent free opening (in square inches) that must be provided by the fireplace chimney or damper to vent the flue gases is provided in Table 1. If the free opening is smaller than the specified area, do not use this appliance.
- The damper must be removed or fixed in a manner in which will secure it open. Some jurisdictions require the damper to be removed or permanently welded fully open. Check with state and local codes.
- Be sure that the chimney is completely unobstructed to ensure proper ventilation of flue gases including carbon monoxide (CO). CO (a poisonous gas) is tasteless, odorless, colorless and undetectable without proper equipment.

High Altitude Derate

In the USA, input BTU shall be derated 4% (one orifice size) per 1000 feet for altitudes above 2000 feet. In Canada, input BTU shall be derated 10% (two orifice sizes) at altitudes from 2000-4500 feet.

CAUTION

- Prevent accidental appliance operation when not attended.
- Unplug or remove batteries from remote control if absent or if appliance will not be used for an extended period of time.
- Property damage possible from elevated temperatures.

4 Installation Instructions

A. Damper Stop:

For Use with BR, BC, SR, SC, TF and TL Series CFM Corporation Fireplaces

This Damper Stop is designed to work on all CFM Corporation BR, BC, SR, TF and TL series fireplaces. For all other fireplaces, refer to note below.

When installing a decorative gas appliance in a fireplace, some local codes require this Damper Stop to be used so the Damper will not close completely. To install the Damper Stop:

The Damper Locking Bracket is already installed on all BR, BC, SR, TF and TL fireplaces. Locate the Damper Locking Bracket on the left side of the fireplace's Combustion Dome. (Fig. 1)

With the Damper open, align the two slots on either side of the cut-out on the Damper Stop with the two small holes on the angled portion of the Damper Locking Bracket. Attach the Damper Stop with the Screws provided, as shown in Figure 2.

NOTE: Some of the early fireplace units may not have the holes in the end of the Damper Locking Bracket. If this is the case, use the Damper Stop as a template to drill two (2) 1/8" holes in the Damper Locking Bracket to mount the Damper Stop.

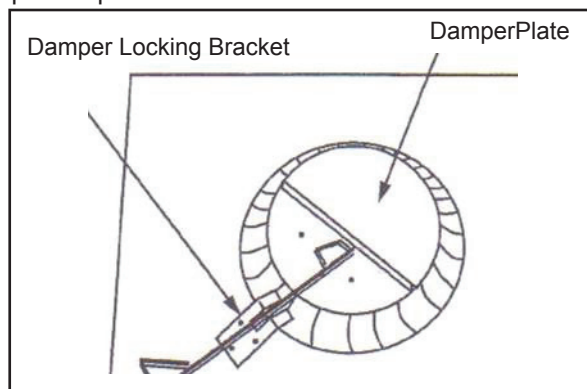


Figure 1

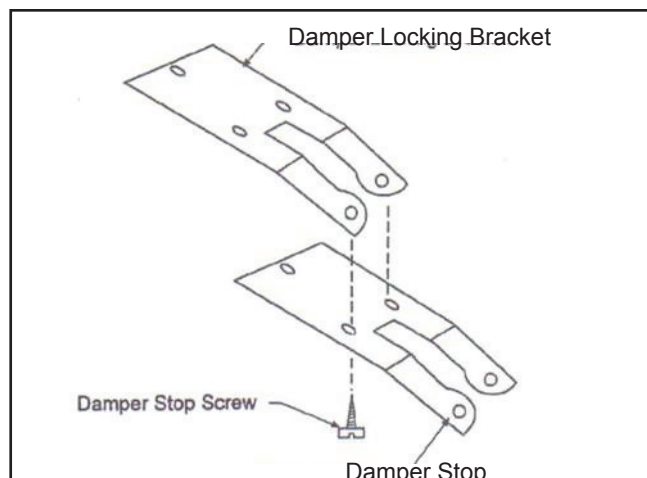


Figure 2

For Use With All Other Fireplaces

The Damper Clamp provided keeps your damper from accidentally closing during operation of your set. This Damper Clamp must be installed onto your Damper at all times. NOTE: The damper clamp is designed to hold the damper plate open 3 inches. However, the damper must be fully open when the log set is in operation.

Install the Damper Clamp onto the edge of the damper plate. Attach by securing the bolt provided to the damper plate with an adjustable wrench. (Fig. 3)

If the Damper Clamp does not fit, drill a 1/4" hole onto the damper plate and install an anchor bolt with a nut, at a 90 degree angle, so that the damper plate will remain fully open.

The proper finished installation of the Damper Clamp is shown in Figure 4. If the bolt fails to block the damper in an open position, the damper should be removed from the chimney.

To check your vent for proper drafting: Light a tightly rolled newspaper on one end and place it at the inside front edge of the fireplace. Observe the smoke and be sure the vent is properly drawing it up the chimney. If the smoke is drawn back into the room, extinguish the flame and remove any obstruction until proper venting is achieved. If that fails, check with a qualified chimney sweep.

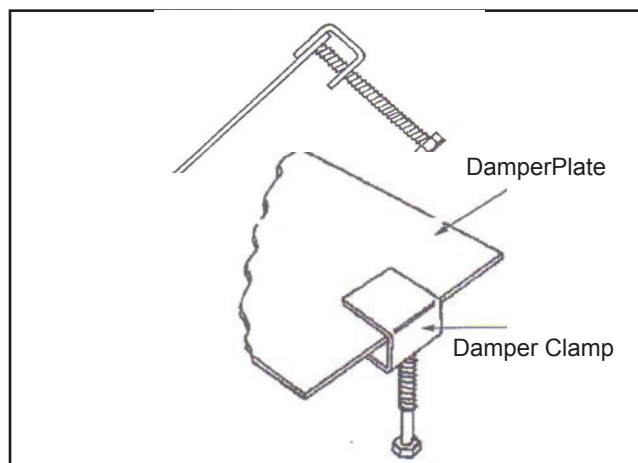


Figure 3

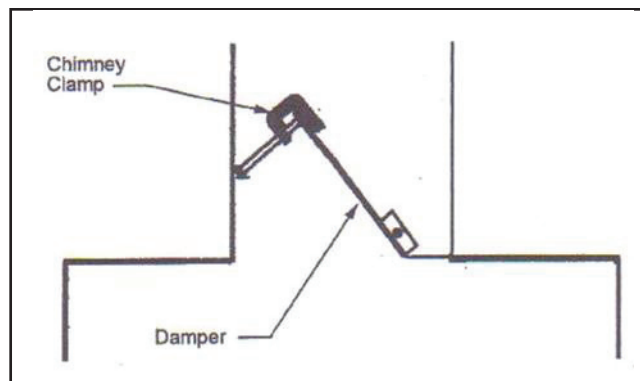


Figure 4

B. Install the Burner/Pan Assembly

The burner/pan assembly is shipped ready for left-hand gas connection. See Section 3.B. for right-hand connection.

- Remove the existing cap or gas jet assembly from the gas stub in your fireplace. Clean the threads using a wire brush or steel wool. Apply Teflon tape or joint compound to the steel fitting and attach the provided brass adapter to the stub.
- Place the burner/pan assembly in the fireplace. The pan should be centered both front to back and side to side.
- Bend the provided gas connector to facilitate its installation between the burner and the gas stub.
- Attach one end of the gas connector to the brass elbow or safety pilot fitting. Attach the other end to the brass adapter at the gas tube.

C. Switch or Remote Installation

- Remote - follow instructions included with it.
- Switch:
 - Plug in two wires from the switch to wires on valve.

D. Install the Burner Pan and Grate

- The burner pan should be centered under the existing grate, side to side. The center leg of the grate should be positioned in front of the burner tube so as to ensure proper placement and proper flame position. Refer to Figure 4.2. Note: For easy placement, tilt grate up and hold burner pan at 45 degree angle starting with back left corner of burner pan.

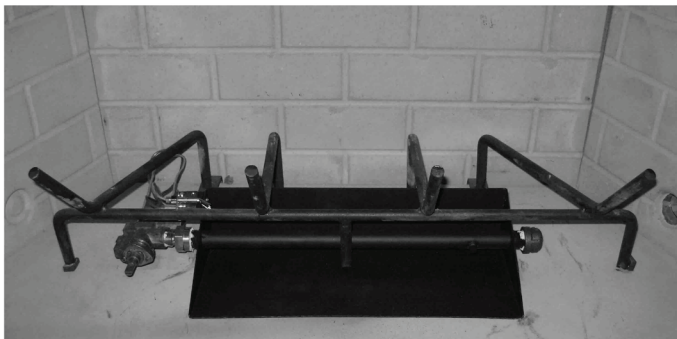


Figure 4.2 Center Burner Pan Under Grate

E. Place Sand/Vermiculite, Rockwool

- Pour the sand (NG models) or vermiculite (LP models) into the burner pan. Sand or vermiculite should follow the slope of pan, covering it and the burner tube completely.

Important: Cover the pilot assembly to protect it before installing the sand or vermiculite.

Note: Use caution so vermiculite does not get into the air mixer on LP models.

- Allow the sand or vermiculite to spill out the front of the pan and over the sides onto the fireplace floor.



WARNING

Explosion Risk




- Follow rockwool placement instructions in this manual.
 - Replace rockwool material annually.
- Improperly placed rockwool interferes with proper burner operation.

- Lightly place dime-sized pieces of rockwool evenly on top of the sand or vermiculite.
- **Inspect the pilot burner to ensure it is clear of any rock wool.**

Note: For best results, do not pack down the rock wool. The placement of rock wool can have an effect on flame pattern and may need to be adjusted to achieve a desired appearance.

- The gas burns at the point of the least resistance. In case of an uneven flame pattern it may be necessary to adjust the materials in the pans (using an object such as a long screwdriver) to achieve the desired effect.

F. Install the Logs

	WARNING	
	Fire Risk Explosion Risk Personal Injury Risk	
	Failure to position the parts in accordance with the diagrams provided with the log packages or failure to use only parts approved with this appliance may result in property damage or personal injury.	

- Install the logs using the installation instructions included with them.
- Light the burner as outlined in the operating section. Allow the flame pattern to stabilize. If you are satisfied with the flame pattern go to the next step. If you want more or less flame around the front log, turn off the gas and move the grate backward or forward.
- Once you are satisfied, turn on the gas and go on to the next step.
- Arrange the top logs as shown in your log set up instructions. Light the burner as outlined in the operating instructions and allow the flame to stabilize.
- Spread the lava rock around the outside of the burner pan on the floor of the fireplace. If possible, cover the gas connector with the cinders. **DO NOT** cover any part of the pilot assembly.

MO18



Step 1



Step 2



Step 3

MO24



Step 1



Step 2



Step 3

G. Adjust the Pilot Flame

The pilot flame should be a soft blue color and should surround the last 1/2 in. of the thermocouple tip. The pilot adjustment screw is located on pilot valve beside control knob. Refer to Figure 4.3. If pilot flame must be adjusted, use a standard slotted screwdriver to turn screw clockwise to reduce flame or counterclockwise to increase flame.

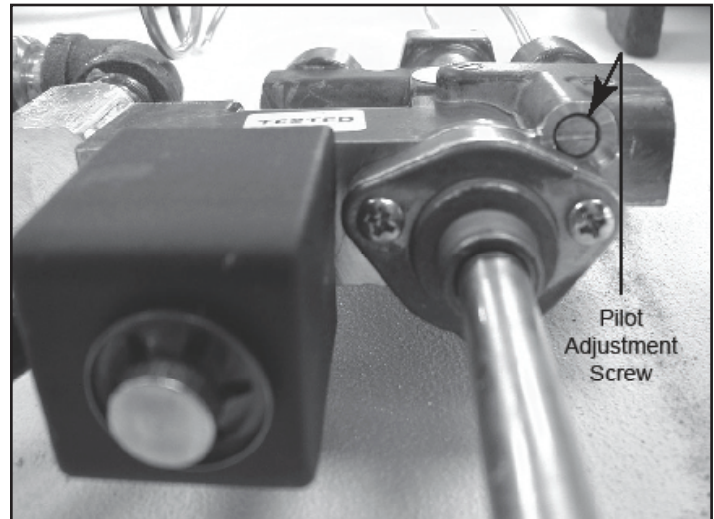


Figure 4.3 Pilot Adjustment Screw

H. Inspect the Venting System

The fireplace venting system is designed and constructed to develop a positive flow adequate to remove flue gases to the outside atmosphere. See fireplace installation instructions.



A spillage test must be made before the installed appliance is left with the consumer

- Close all doors and windows in the home.
- Light the log set.
- After three minutes, test with a smoke match, smoke candle, stick incense or cigarette one inch below the top of the opening (lintel) moving across the full width. If spillage (smoke drawn into the room) occurs, it will most likely be near the top, outside corners.

Possible Cures if Spilling Occurs

- The damper should be fully open.
- The fireplace opening needs to be reduced by adding a drop panel across the top under the lintel.
- The air supply from outdoors needs to be increased. Open the outside air kit if the appliance is so equipped, or crack open a door or window.
- If necessary, seek expert advice. Do not operate this appliance.

Cleaning

	! WARNING
	<p>Fire Risk Explosion Risk Inspect external vent cap regularly.</p> <ul style="list-style-type: none">• Ensure no debris blocks cap.• Combustible materials blocking cap may ignite.• Restricted air flow affects burner operation.

5 Operating Instructions




A. Lighting Instructions

FOR YOUR SAFETY READ BEFORE LIGHTING


WARNING! IF THESE INSTRUCTIONS ARE NOT FOLLOWED EXACTLY, A FIRE OR EXPLOSION MAY RESULT CAUSING PROPERTY DAMAGE, PERSONAL INJURY OR LOSS OF LIFE.

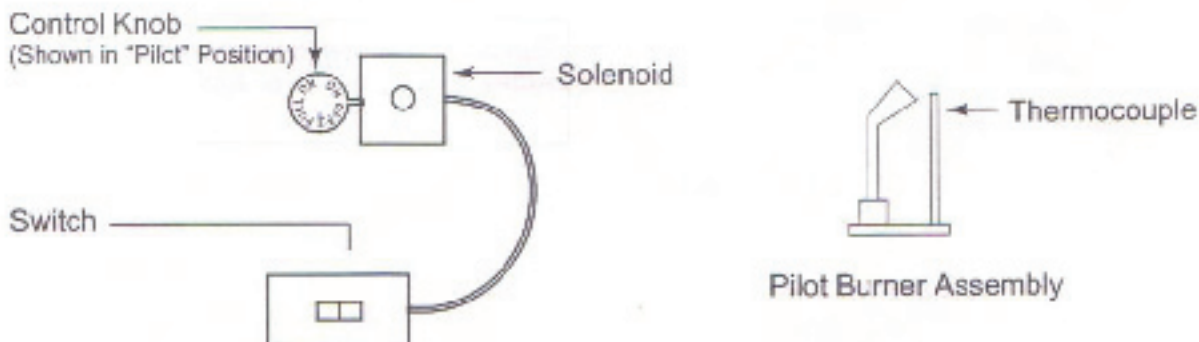
- A. This appliance has a pilot that must be lighted by hand. When lighting the pilot, follow these instructions exactly.
- B. **BEFORE LIGHTING** smell all around the appliance area for gas. Be sure to smell next to the floor because some gas is heavier than air and will settle on the floor.
WHAT TO DO IF YOU SMELL GAS
 - Do not try to light any appliance.
 - Do not touch any electrical switch; do not use any phone in your building.
 - Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.
 - If you cannot reach your gas supplier, call the fire department.
- C. Use only your hand to push in or turn the gas control handle. Never use tools. If the handle will not push in or turn by hand, do not try to repair it. Call a qualified service technician. Force or attempted repair may result in fire or explosion.
- D. Do not use this appliance if any part has been under water. Immediately call a qualified service technician to inspect the appliance and to replace any part of the control system and any gas control that has been under water.

LIGHTING INSTRUCTIONS

1. **STOP!** Read the safety information previously listed above.
2. Turn gas control handle clockwise  to the "OFF" position.
3. Wait 5 minutes to clear out any gas. Then smell for gas, including near the floor. If you smell gas, **STOP!** Follow "B" in the safety information above on this label. If you don't smell gas, go to the next step.
4. Locate pilot (mounted on the right side of the top burner pan).
5. Turn control handle counterclockwise  to the "PILOT" position.
6. Place a lit match at the pilot burner, and simultaneously push in on the control handle. This should ignite the pilot.
7. Once the pilot lights, continue to depress the control handle for 1 minute.
8. After 1 minute, slowly release control handle and it will pop back out. Pilot should remain lit. If it goes out, repeat Steps 1 through 7.
 - If the handle does not pop out when released, stop and immediately call your service technician or gas supplier.
 - If the pilot will not stay lit after several tries, turn the gas control handle to "OFF" and call your service technician or gas supplier.
9. Turn gas control handle counterclockwise  to "ON".

TO TURN OFF GAS TO APPLIANCE

Turn gas control handle clockwise  to "OFF" position. Do not force.



FOR YOUR SAFETY READ BEFORE LIGHTING




WARNING! IF THESE INSTRUCTIONS ARE NOT FOLLOWED EXACTLY, A FIRE OR EXPLOSION MAY RESULT CAUSING PROPERTY DAMAGE, PERSONAL INJURY OR LOSS OF LIFE.

- A. This appliance has a pilot that must be lighted by hand. When lighting the pilot, follow these instructions exactly.
- B. **BEFORE LIGHTING** smell all around the appliance area for gas. Be sure to smell next to the floor because some gas is heavier than air and will settle on the floor.

WHAT TO DO IF YOU SMELL GAS

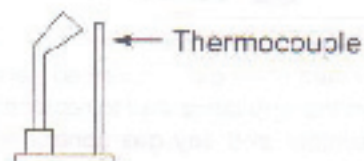
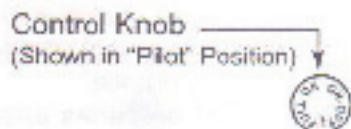
- Do not try to light any appliance.
 - Do not touch any electrical switch; do not use any phone in your building.
 - Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.
 - If you cannot reach your gas supplier, call the fire department.
- C. Use only your hand to push in or turn the gas control handle. Never use tools. If the handle will not push in or turn by hand, do not try to repair it. Call a qualified service technician. Force or attempted repair may result in fire or explosion.
 - D. Do not use this appliance if any part has been under water. Immediately call a qualified service technician to inspect the appliance and to replace any part of the control system and any gas control that has been under water.

LIGHTING INSTRUCTIONS

1. **STOP!** Read the safety information previously listed above.
2. Turn gas control handle clockwise  to the "OFF" position.
3. Wait 5 minutes to clear out any gas. Then smell for gas, including near the floor. If you smell gas, STOP! Follow "B" in the safety information above on this label. If you don't smell gas, go to the next step.
4. Locate pilot (mounted on the right side of the top burner pan).
5. Turn control handle counterclockwise  to the "PILOT" position.
6. Place a lit match at the pilot burner, and simultaneously push in on the control handle. This should ignite the pilot.
7. Once the pilot lights, continue to depress the control handle for 1 minute.
8. After 1 minute, slowly release control handle and it will pop back out. Pilot should remain lit. If it goes out, repeat Steps 1 through 7.
 - If the handle does not pop out when released, stop and immediately call your service technician or gas supplier.
 - If the pilot will not stay lit after several tries, turn the gas control handle to "OFF" and call your service technician or gas supplier.
9. Turn gas control handle counterclockwise  to "ON".

TO TURN OFF GAS TO APPLIANCE

Turn gas control handle clockwise  to "OFF" position. Do not force.






Pilot Burner Assembly

B. Glass Doors

If your fireplace is equipped with glass doors:


- Glass doors should be in fully open position when appliance is operating.
- Operating in the closed position will block the radiant heat output and may cause incomplete combustion of the gas and will cause the gas valve to overheat and be damaged.

	WARNING
	Fire Risk
	Explosion Risk
	Do not close the glass doors during appliance operation.
	<ul style="list-style-type: none">• Could cause incomplete combustion of the gas.



- Glass doors may be closed when the hearth kit is not being used.

C. Important Safeguards

- Other Fuels
 - Although your gas log set is very realistic in appearance, it is not a real woodburning fire and must not be used for burning any fuel other than natural or propane gas.
 - To avoid irreparable damage to the appliance and/or personal injury, wood, matches, paper, garbage or any other material must not be placed or thrown on top of the logs.
- Appliance Safety
 - To avoid personal injury, do not touch hot surfaces when the appliance is operating.
 - Always ensure that the fireplace screen is closed when the appliance is operating.
 - Close supervision is necessary when the appliance is being used near children.
- Do not remove any of the attached metal plates, which contain important safety and operating information.
- Keep the appliance area clear and free of all combustible materials, gasoline and other flammable vapors and liquids.

	WARNING
Do NOT use this appliance if any part has been under water. Immediately call a qualified service technician to inspect the appliance and to replace any part of the control system and any gas control which has been under water.	

- **A qualified service technician must perform installation and repair.** The appliance should be inspected and cleaned annually by a qualified service technician. More frequent cleaning may be required due to excessive lint, dust, pet hair, etc. It is imperative that the control compartments, burners and air passageways are unobstructed during operation.
 - Review proper placement of logs, rockwool, lava rock, sand or vermiculite.
 - Check the wiring.
 - Ensure there are no gas leaks.
 - Ensure the flow of combustion and ventilation air is not obstructed (front grilles and vent caps).
- Before installing into a solid fuel burning fireplace, the chimney and firebox should be inspected and cleaned to remove soot, creosote, ashes, paint, bird nests etc.
- Annual examination of the chimney must be performed by a qualified agency to ensure proper ventilation of flue gases created by this appliance.
- Have the chimney and adjacent structure inspected and cleaned by qualified professionals. CFM recommends that NFI certified professionals, or technicians under the direction of certified professionals, conduct a minimum of an **NFPA 211 Level 2** inspection of the chimney.
- Replace component parts of the chimney and fireplace as specified by the professionals.
- Ensure all joints are properly engaged and the chimney is properly secured.
- Do not allow fans to blow directly into the fireplace. Avoid any drafts that alter burner flame pattern.
- Do not use a blower insert, heat exchanger insert or other accessories not approved for use with this appliance. Solid fuels shall not be burned in a fireplace where a decorative appliance is installed.
- If glass doors are present, the **glass doors must be fully opened** while appliance is in operation.

		WARNING
	Fire Risk	
	High Temperatures	
	Keep combustible household items away from appliance.	
	Do NOT obstruct combustion and ventilation air.	
	<ul style="list-style-type: none">• Do NOT place combustible items on top of or in front of appliance.• Keep furniture, draperies away from appliance.	

6 Maintaining and Servicing the Appliance

A. Servicing Your Appliance

WARNING

Risk of injury or property damage

Before servicing:

- Turn off gas.
- Turn off electricity to appliance.
- Disable remote control, if one is present.
- Ensure appliance is completely cooled.

After Servicing:

- Replace any screen or barrier that was removed.
- Reseal and reinstall any venting removed for servicing.

- Repair and replacement work should be done by a qualified service technician.
- Always shut off the gas supply and make sure the appliance is cool before beginning any service operation.
- Always check for gas leaks after servicing.
- Always check for proper venting.

B. Cleaning Your Appliance

Your gas logs require little care. Keep the burner assembly, logs and burner area surrounding the logs clean by vacuuming or brushing with a dry paint brush at least twice a year.

- The logs become fragile after burning. Take care in handling.
- Always turn off the gas to the pilot before cleaning. For relighting, refer to lighting instructions located Section 5 of these instructions.
- Always keep the appliance clear and free from combustible materials, gasoline, and other flammable vapors and liquids.
- Never obstruct the flow of combustion and ventilation air. Keep the front of the appliance clear of all obstacles and materials.
- Leave clearance of at least 36 in. from the front of the fireplace.
- The air shutter should not be blocked.

CAUTION

- Logs can get very hot. Handle only when they are cool.

C. Annual Inspection

WARNING



Annual inspection by qualified technician recommended.

Check:

- Condition of doors, surrounds and fronts.
- Obstructions of combustion and ventilation air.
- Condition of logs.
- Condition of firebox.
- Gas connections and fittings.
- Obstructions of termination cap.



Clean:

- Glass.
- Logs.
- Burner, burner ports.

Risk of:

- Fire
- Delayed ignition or explosion
- Exposure to combustion fumes
- Odors

D. Troubleshooting

With proper installation and maintenance, your new decorative gas appliance should provide years of trouble-free service. If you do experience a problem, refer to the troubleshooting guide below. This guide will assist you or a qualified service technician in the diagnosis of problems and the corrective action to be taken.

Symptoms	Possible Causes	Corrective Action
1. A match will not light the pilot.	A. Main gas shutoff valve is closed	1. Make sure that the shutoff valve located on the incoming gas line is open.
	B. There is air in the gas line.	1. Light a match. Turn the valve knob to the "PILOT" position and depress. Keep the match near the pilot burner until it lights.
	C. The valve knob is in the "OFF" position.	1. Turn the valve knob to the "PILOT" position and depress. Keep the match near the pilot burner until it lights.
	D. The pilot orifice is plugged, not allowing gas to flow.	1. This repair requires tools and some degree of experience. Call a qualified service technician.
	E. There is no gas supply to the fireplace.	1. Check the plumbing to ensure the fireplace has been hooked up the gas supply line.
		2. The propane tank is empty.
2. The pilot lights, but will not stay lit after carefully following lighting instructions.	A. The thermocouple is too tight or too loose.	1. The thermocouple must be attached to the valve finger-tight plus a 1/8 turn with a wrench.
	B. There is a weak pilot flame.	1. The pilot flame must engulf the thermocouple. Clean and/or adjust the pilot for maximum flame impingement on the thermocouple.
	C. Defective thermocouple	1. Check the thermocouple with a millivolt meter as follows: Disconnect the thermocouple from the valve and connect the red lead of the meter to the silver end of the thermocouple. Connect the black lead of the meter to the copper tubing of the thermocouple. Light the pilot and keep the knob depressed while taking readings. The meter readings should be greater than 14 mV. If not, replace the thermocouple.
3. The pilot is on, but there is no gas to the main burner; the valve knob is on.	A. A blockage is preventing gas flow.	1. Inspect the burner orifice for obstruction. Call a qualified service technician.
	B. Defective valve.	1. Replace the gas valve. Call a qualified service technician.

7 Reference Materials

A. Replacement Parts

Service Parts

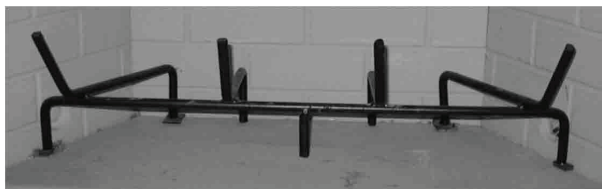
CFM HEARTH KITS

Exploded Parts Diagram Natural Gas

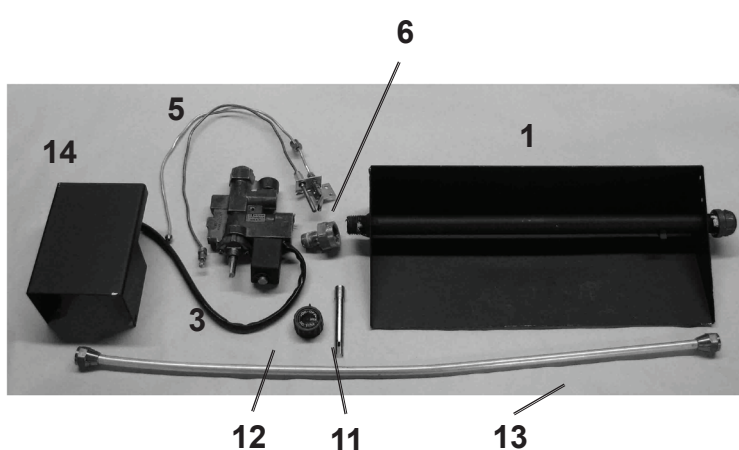
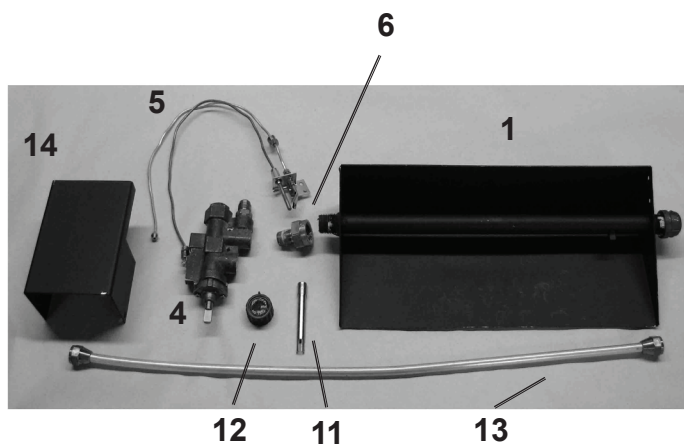
1 - Burner Pan Assembly



2 - Grate Assembly



3 - Hearth Kit Assemblies



Exploded parts diagram - Natural Gas

20013055 7/05 Rev. 0

Exploded Parts Diagram LP

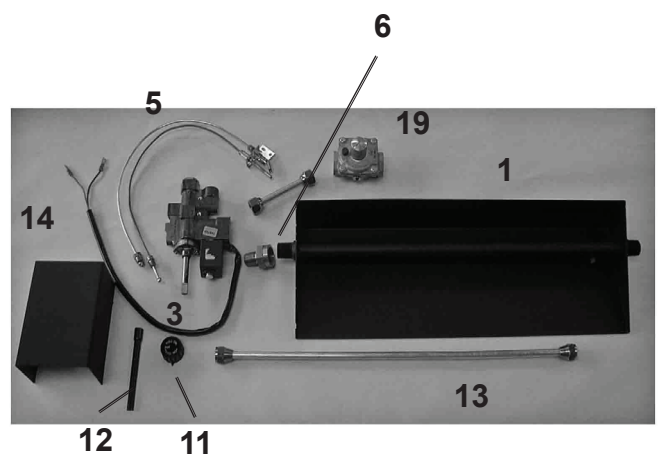
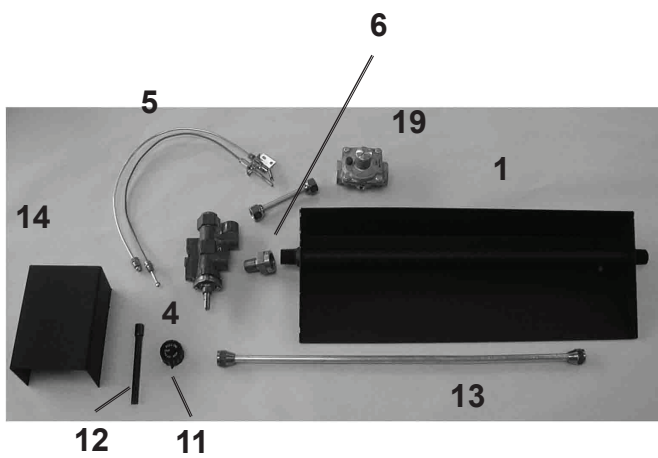
1 - Burner Pan Assembly



2 - Grate Assembly



3 - Hearth Kit Assemblies



Replacement Parts

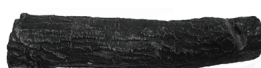
Service Parts List LP

#	Description of Part	MO18SPL,MO18RRL	MO24SPL,MO24RRL	Qty.
	Damper Stop Assembly	4304045	4304045	1
1	Burner Pan Assembly	20013012	20013013	1
3	Valve - Remote Ready (RR)	20013032	20013032	1
4	Valve- Standing Pilot (SP)	20013033	20013033	1
5	Pilot Assy - LP	20013034	20013034	1
6	Orifice	20013035	20013036	1
11	Valve Knob Extension	3304198	3304198	1
12	Valve Knob	3304213	3304216	1
13	Connector Tube	20013023	20013023	1
19	Regulator	20013042	20013042	1
14	Valve Shield	20013024	20013024	1
	Vermiculite	4310008	4310008	1
	Lava Rock	4310010	4310010	1
	Glowing Embers	4310001	4310001	1
	Damper Stop for BR/BC, SR/SC, TF/TL only	3030176	3030176	1
	Damper Stop Screws	7521901	7521901	2

Description of Log Parts	MO18M	MO24M	Qty.
Log 1	20013043	20013048	1
Log 2	20013044	20013049	1
Log 3	20013045	20013050	1
Log 4	20013046	20013051	1
Log 5	20013047	20013052	1



Log 1



Log 2



Log 1



Log 2



Log 3



Log 4



Log 3



Log 4



Log 5



Log 5

B. Optional Components

Safety Pilot Burner/Hearth Kits	
20013010	Hearth ember burner for 18 in. hearth kits
20013011	Hearth ember burner for 24 in. hearth kits

Remote Ready Burner/Hearth Kits	
20013019	Hearth ember burner for 18 in. hearth kits
20013020	Hearth ember burner for 24 in. hearth kits
20013021	on/off remote control
20013021	Wall switch (on/off only)
20013025	Switch in Log

C. Owner Registration/Warranty

Please complete and return your owner registration card to ensure proper warranty coverage. If you wish to communicate with the factory, write to

LIMITED ONE YEAR WARRANTY

For CFM Corporation Decorative Gas Appliances

CFM Corporation extends the warranties specified in paragraphs A and B below with respect to its Vermont Castings Decorative Appliances (the "Gas Appliance"), including CFM Corporation supplied accessories and components referred to in those paragraphs, subject to the following conditions and limitations:

(1) These warranties extended only the the Gas Appliance installed in the continental United States, including Alaska, and Canada; only if and so long as the accordance with the installation and operating instructions furnished therewith; and only if and so long as Gas Appliance is not removed from its original installation.

(2) These warranties are limited to only the component parts manufactured and supplied by CFM Corporation. The use of components manufactured by others with the Gas Appliance (except for a listed Type B venting system and defined in the installation instructions) could create serious safety hazard, may result in the denial of certification by recognized national safety agencies, and could be in violation of local building codes.

(3) The Gas Appliance must be operated at all times in accordance with the operating instruction furnished therewith. The Gas Appliance is designed to burn either natural or propane gas only. Burning conventional fireplace fuels such as wood, coal, or any other solid fuel will cause damage to the Gas Appliance, will produce excessive temperatures and will result in fire hazard.

(4) These warranties are limited to repair, replacement or furnishing a replacement for sale, as specified in Paragraphs A and B, for a part found to CFM Corporation satisfaction, after examination, to be defective in materials or workmanship under normal conditions, use and service.

(5) All obligations with respect to these warranties may be fully discharged by CFM Corporation refunding the wholesale price of a defective part.

(6) Except as otherwise expressly specified in Paragraphs A and B. NONE OF THESE WARRANTIES COVER AND CFM CORPORATION SHALL NOT BE RESPONSIBLE FOR, ANY CONSTRUCTION, INSTALLATION, LABOR, TRANSPORTATION OR OTHER COSTS OR EXPENSES ARISING FROM A DEFECTIVE PART, ITS REPAIR OR REPLACEMENT OR OTHERWISE, NOR SHALL CFM CORPORATION IN ANY EVENT BE RESPONSIBLE FOR ANY INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES, EXCEPT TO THE EXTENT PROVIDED BY LAW. THERE ARE NO IMPLIED WARRANTIES WITH RESPECT TO THE GAS APPLIANCE, ITS COMPONENTS AND ACCESSORIES (INCLUDING IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE), ALL OF WHICH ARE HEREBY EXPRESSLY INCLUDED.

IN NO EVENT SHALL ANY IMPLIED WARRANTY PRESCRIBED BY LAW (NOTWITHSTANDING THE FOREGOING EXPRESS EXCLUSION) REMAIN IN EFFECT AFTER EXPIRATIONS OF WARRANTIES SET FORTH IN PARAGRAPHS A AND B.

A. Gas Appliances, electrical and manual components, glass panels, all sealants or adhesives and optional accessories (exclusive of CFM Corporation supplied decorative logs which are covered by a separate warranty under paragraph B below):

Within one year from the date of manufacture of the gas appliance, CFM Corporation will repair, or replace (at our option) a defective part without charge.

B. Cement or ceramic fiber log components:

Within one year from the date of manufacture of the gas appliance, CFM Corporation will replace a defective part without charge. Within one year from the date of manufacture of the gas appliance, CFM Corporation will provide a replacement for a defective part to the homeowner, but assumes no liability for incurred labor cost.

The foregoing warranties gives you specific legal rights and you may also have other rights which vary from state to state. Some states do not allow limitations on how long an implied warranty may last, so the limitation specified above on the duration of any implied warranty prescribed by law may not apply to you. Similarly, some states do not permit the exclusion or limitation of incidental or consequential damages, so the above exclusion of such damages may not apply to you.

In order to obtain performance of any of the above warranty obligations, write to the CFM Corporation at this address:

CFM Corporation
410 Admiral Blvd.
Mississauga, Ontario Canada L5T 2 N6
Attention: Manager of Warranty Services

Since local building requirements may vary greatly throughout the country, users of CFM Corporation products should determine in advance whether there are any building code restrictions on the use of a specified product. CFM CORPORATION MAKES NO REPRESENTATION OR WARRANTY REGARDING, AND SHALL NOT BE RESPONSIBLE FOR, ANY BUILDING CODE COMPLIANCE. The foregoing warranties give you specific legal rights and you may also have other rights which vary from state to state.